

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|--|--|------------------|---------|------------------|
| L1 | 13075 | step adj coverage | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/09/28 09:28 |
| L2 | 1239 | damascene and step adj coverage | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/28 09:37 |
| L3 | 0 | damascene and ((step adj coverage) with '90') | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/28 09:37 |
| L4 | 26 | damascene and ((step adj coverage) with '90%') | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/28 09:48 |
| L5 | 98 | damascene and ((step adj coverage) same ALD) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/09/28 09:48 |
| S1 | 128 | 438/628.ccls. | USPAT | OR | OFF | 2005/09/28 09:28 |
| S2 | 97 | 438/628.ccls. and react\$ | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2002/03/26 19:25 |
| S3 | 283 | 438/627.ccls. and react\$ | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2002/03/27 10:53 |
| S4 | 89 | 438/625.ccls. and react\$ not (reactive adj ion) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2002/03/27 11:12 |
| S5 | 319 | 438/643.ccls. and react\$ not (reactive adj ion) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2002/03/27 14:12 |
| S6 | 393 | 438/680.ccls. and react\$ not (reactive adj ion) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2002/03/27 14:28 |
| S7 | 90 | 438/644.ccls. and react\$ not (reactive adj ion) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2002/03/27 14:39 |

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| S8 | 101 | 438/658.ccls. and react\$ not (reactive adj ion) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2002/03/27 14:50 |
| S9 | 137 | 438/681.ccls. and react\$ not (reactive adj ion) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2002/03/27 15:01 |
| S10 | 85 | 438/677.ccls. and react\$ not (reactive adj ion) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2002/03/27 15:10 |
| S11 | 69 | 438/775.ccls. and react\$ not (reactive adj ion) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2002/03/27 15:17 |
| S12 | 567 | 438/763.ccls. and react\$ not (reactive adj ion) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2002/03/27 15:57 |
| S13 | 203 | 438/622.ccls. and react\$ not (reactive adj ion) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2002/03/27 16:00 |
| S14 | 1 | "6200893".pn. | USPAT | OR | OFF | 2002/09/21 13:10 |
| S15 | 28 | (dual adj damascene) and (self adj limit\$4) and nitride and barrier | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2002/10/02 08:21 |
| S16 | 21 | ("4401054" "4534842" "4563367" "4745337" "5061838" "5102687" "5223457" "5227695" "5478403" "5483919" "5536914" "5605637" "5653811" "5666023" "5702530" "5762714" "5916365" "6054016" "6080446" "6103304" "6200893").PN. | USPAT | OR | OFF | 2002/10/02 08:33 |
| S17 | 0 | "6384480".URPN. | USPAT | OR | OFF | 2002/10/02 08:45 |
| S18 | 12 | 257/7\$.ccls. and ((insulat\$4 or dielectric) with (porous or pores) with (adhesion or glue)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2002/10/08 08:11 |
| S19 | 10 | damascene and ((insulat\$4 or dielectric) with (porous or pores) with (adhesion or glue)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2002/10/08 08:16 |
| S20 | 6 | damascene and ((insulat\$4 or dielectric) with (porous or pores) same (adhesion or glue) adj layer) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2002/10/08 08:29 |

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| S21 | 7 | damascene and ((insulat\$4 or dielectric) same (porous or pores) same (adhesion or glue) adj layer) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2002/10/08 08:32 |
| S22 | 49 | damascene and (((low adj dielectric) or (low-k) or xerogel) same (adhesion or glue) adj layer) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2002/10/08 09:04 |
| S23 | 42 | dual adj damascene and xerogel | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2002/10/08 09:04 |
| S24 | 1 | "6482733".pn. | USPAT | OR | OFF | 2003/03/18 11:08 |
| S25 | 2 | ("6727169").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/12 21:46 |
| S26 | 34 | ("4058430" "4413022" "4747367" "4761269" "5674781" "5711811" "5879459" "5904565" "5916365" "5933761" "6037258" "6048790" "6069068" "6077775" "6083818" "6093638" "6100184" "6139700" "6146517" "6181012" "6184128" "6188134" "6200893" "6203613" "6207567" "6225213" "6270572" "6287965" "6303523" "6342448" "6351039" "6358829" "6368954" "6482733" "2001/0001742" "2001/0034123").PN. | USPAT | OR | OFF | 2004/10/12 21:25 |
| S27 | 98 | (dual adj damascene) and (ALD (atomic adj layer adj deposition)) and ("".ANG.." angstrom\$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/04/08 22:56 |
| S28 | 2 | "6727169".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/13 13:54 |

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| S29 | 73 | (("4058430") or ("4413022") or ("4747367") or ("4761269") or ("5674781") or ("5711811") or ("5879459") or ("5904565") or ("5916365") or ("5933761") or ("6037258") or ("6048790") or ("6069068") or ("6077775") or ("6083818") or ("6093638") or ("6100184") or ("6139700") or ("6146517") or ("6181012") or ("6184128") or ("6188134") or ("6200893") or ("6203613") or ("6207567") or ("6225213") or ("6270572") or ("6287965") or ("6303523") or ("6342448") or ("6358829") or ("6351039") or ("6368954") or ("6482733") or ("2001001742") or ("20010034123")).PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/13 14:59 |
| S30 | 2 | ("20010011742").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/13 14:59 |
| S31 | 826 | (dual adj damascene) and "0.25" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/13 16:08 |
| S32 | 69 | (dual adj damascene) and ("0.35" adj (micron\$1 micrometer\$1)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/13 16:09 |
| S33 | 160 | (ald (atomic adj layer adj deposition)) and (step adj coverage) | USPAT | OR | OFF | 2004/10/13 17:46 |
| S34 | 1327 | dual adj damascene and barrier and aluminum and copper and seed | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/13 19:15 |
| S35 | 169 | dual adj damascene and barrier and aluminum and copper and seed and (ald (atomic adj layer adj deposition)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/13 19:16 |
| S36 | 2181 | (electroplat\$3 or electroless) with (tungsten W) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/13 22:01 |

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| S37 | 184 | (dual adj damascene) and (electroplat\$3 or electroless) with (tungsten W) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/13 22:01 |
| S38 | 105 | (dual adj damascene) and (high with ratio) and (ald atomic adj layer adj deposition) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/14 16:19 |
| S39 | 105 | (dual adj damascene) and (high with ratio) and (ald (atomic adj layer adj deposition)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/14 16:39 |
| S40 | 0 | (dual adj damascene) and ('9:1') and (ald (atomic adj layer adj deposition)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/14 16:39 |
| S41 | 56 | (dual adj damascene) and ('4:1' '5:1' '6:1' '7:1' '8:1' '9:1' '10:1' '11:1' '12:1' '13:1' '14:1') and (ald (atomic adj layer adj deposition)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/10/14 16:41 |
| S42 | 134 | (dual adj damascene) and (ALD (atomic adj layer adj deposition)) and ("."ANG.." angstrom\$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/04/08 23:01 |
| S43 | 190 | (dual adj damascene) and (ALD (atomic adj layer adj deposition)) and (nanometers nm) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/04/08 23:01 |
| S44 | 3130 | (dual adj damascene) same copper | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2005/04/12 18:29 |
| S45 | 404 | (dual adj damascene) same copper and @ad<"19991015" | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2005/04/12 18:29 |
| S46 | 5210 | dual adj damascene and (((tantalum Ta) and (Tungsten W) and (titanium Ti)) with nitride) or (TaN and TiN and WN) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | OFF | 2005/04/13 12:51 |

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| S47 | 4582 | dual adj damascene and lin\$3 with (((tantalum Ta) and (Tungsten W) and (titanium Ti)) with nitride) or (TaN and TiN and WN) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | OFF | 2005/04/13 12:52 |
| S48 | 509 | dual adj damascene and lin\$3 with (((tantalum Ta) and (Tungsten W) and (titanium Ti)) with nitride) or (TaN and TiN and WN) and @ad<"19991015" | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | OFF | 2005/04/13 12:57 |
| S49 | 462 | dual adj damascene and (lining liner) with (((tantalum Ta) and (Tungsten W) and (titanium Ti)) with nitride) or (TaN and TiN and WN) and @ad<"19991015" | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | OFF | 2005/04/13 13:00 |
| S50 | 462 | dual adj damascene and (lining liner) with (((tantalum Ta) and (Tungsten W) and (titanium Ti)) with nitride) or (TaN and TiN and WN) and @ad<"19991015" | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | OFF | 2005/04/13 13:02 |
| S51 | 4477 | @ad<"19991015" and dual adj damascene and (lining liner) with (((tantalum Ta) and (Tungsten W) and (titanium Ti)) with nitride) or (TaN and TiN and WN) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | OFF | 2005/04/13 13:04 |
| S52 | 4471 | @pd<"19991015" and dual adj damascene and (lining liner) with (((tantalum Ta) and (Tungsten W) and (titanium Ti)) with nitride) or (TaN and TiN and WN) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | OFF | 2005/04/13 13:05 |
| S53 | 4543 | @pd>"19991015" and dual adj damascene and (lining liner) with (((tantalum Ta) and (Tungsten W) and (titanium Ti)) with nitride) or (TaN and TiN and WN) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | OFF | 2005/04/13 13:05 |
| S54 | 4477 | @ad<"19991015" and dual adj damascene and (lining liner) with (((tantalum Ta) and (Tungsten W) and (titanium Ti)) with nitride) or (TaN and TiN and WN) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | OFF | 2005/04/13 13:07 |
| S55 | 2367 | @ad<"19991015" and dual adj damascene and (lining liner) with (((tantalum Ta) and (Tungsten W) and (titanium Ti)) with nitride) or (TaN and TiN and WN) | US-PGPUB; USPAT | OR | OFF | 2005/04/13 13:08 |
| S56 | 454 | dual adj damascene and (lining liner) with (((tantalum Ta) and (Tungsten W) and (titanium Ti)) with nitride) or (TaN and TiN and WN) and @ad<"19991015" | US-PGPUB; USPAT | OR | OFF | 2005/04/13 13:11 |

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| S57 | 192 | dual adj damascene and ((lining liner) with (((tantalum Ta) and (Tungsten W) and (titanium Ti) with nitride) or (TaN and TiN and WN) and @pd<"19991015" | US-PGPUB; USPAT | OR | OFF | 2005/04/13 13:13 |
| S58 | 7 | dual adj damascene and ((lining liner) with ((tantalum Ta) and (Tungsten W) and (titanium Ti) with nitride) or (TaN and TiN and WN)) and @pd<"19991015" | US-PGPUB; USPAT | OR | OFF | 2005/04/13 13:16 |
| S59 | 119 | dual adj damascene and ((lining liner) with ((tantalum Ta) and (Tungsten W) and (titanium Ti) with nitride) or (TaN and TiN and WN)) and @ad<"19991015" | US-PGPUB; USPAT | OR | OFF | 2005/04/13 13:38 |
| S60 | 109 | ((dual adj damascene) with aluminum) and @ad<"19991015" | US-PGPUB; USPAT | OR | OFF | 2005/04/13 14:02 |
| S61 | 2 | ((dual adj damascene) with (tungsten w) with seed) and @ad<"19991015" | US-PGPUB; USPAT | OR | OFF | 2005/04/13 14:03 |
| S62 | 38 | ((dual adj damascene) and (tungsten w) with seed) and @ad<"19991015" | US-PGPUB; USPAT | OR | OFF | 2005/04/13 14:28 |
| S63 | 0 | ((dual adj damascene) and '2:2' with seed) and @ad<"19991015" | US-PGPUB; USPAT | OR | OFF | 2005/04/13 14:28 |
| S64 | 4 | ((dual adj damascene) and '2:1' with seed) and @ad<"19991015" | US-PGPUB; USPAT | OR | OFF | 2005/04/13 14:28 |
| S65 | 36 | (dual adj damascene) and '2:1' and @ad<"19991015" | US-PGPUB; USPAT | OR | OFF | 2005/04/13 14:29 |